

**FEATURES**

- Narrow beam angle
- Convenient TO-39 package with leads
- Hermetic package

Dimensions are nominal values in inches unless otherwise specified.



**ELECTRO-OPTICAL CHARACTERISTICS AT 25°C**

PARAMETERS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Total Power Output, $P_o$	$I_F = 350\text{mA}$	80	170		mW
Peak Emission Wavelength, $\lambda_p$	$I_F = 350\text{mA}$		635		nm
Spectral Bandwidth at 50%, $\Delta\lambda$			40		nm
Dominant Wavelength, $\lambda_d$				624	
Half Intensity Beam Angle, $\theta$	$I_F = 350\text{mA}$		7		Deg
Forward Voltage, $V_F$	$I_F = 350\text{mA}$		2.3	3.0	Volts
Reverse Breakdown Voltage, $V_R$	$I_R = 5\mu\text{A}$	10			Volts

**ABSOLUTE MAXIMUM RATINGS AT 25°C**

Continuous Forward Current	500mA
Reverse Voltage	10V
Lead Soldering Temperature (1/16" from case for 10sec)	260°C

**THERMAL PARAMETERS**

Storage and Operating Temperature Range	-55°C TO 100°C
Maximum Junction Temperature	115°C
Thermal Resistance, $R_{THJA}^1$	150°C/W Typical
Thermal Resistance, $R_{THJA}^2$	60°C/W Typical

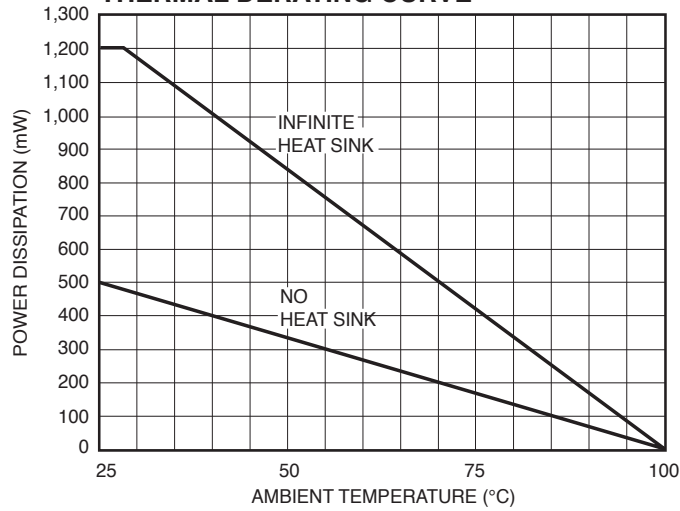
<sup>1</sup> Heat transfer minimized by measuring in still air with minimum heat conducting through leads.

<sup>2</sup> Air circulating at a rapid rate to keep case temperature at 25°C.



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**THERMAL DERATING CURVE**



**RADIATION PATTERN**

